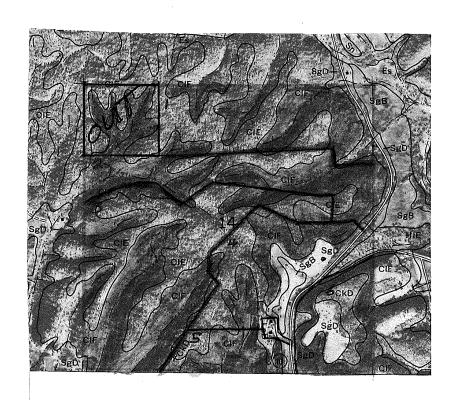
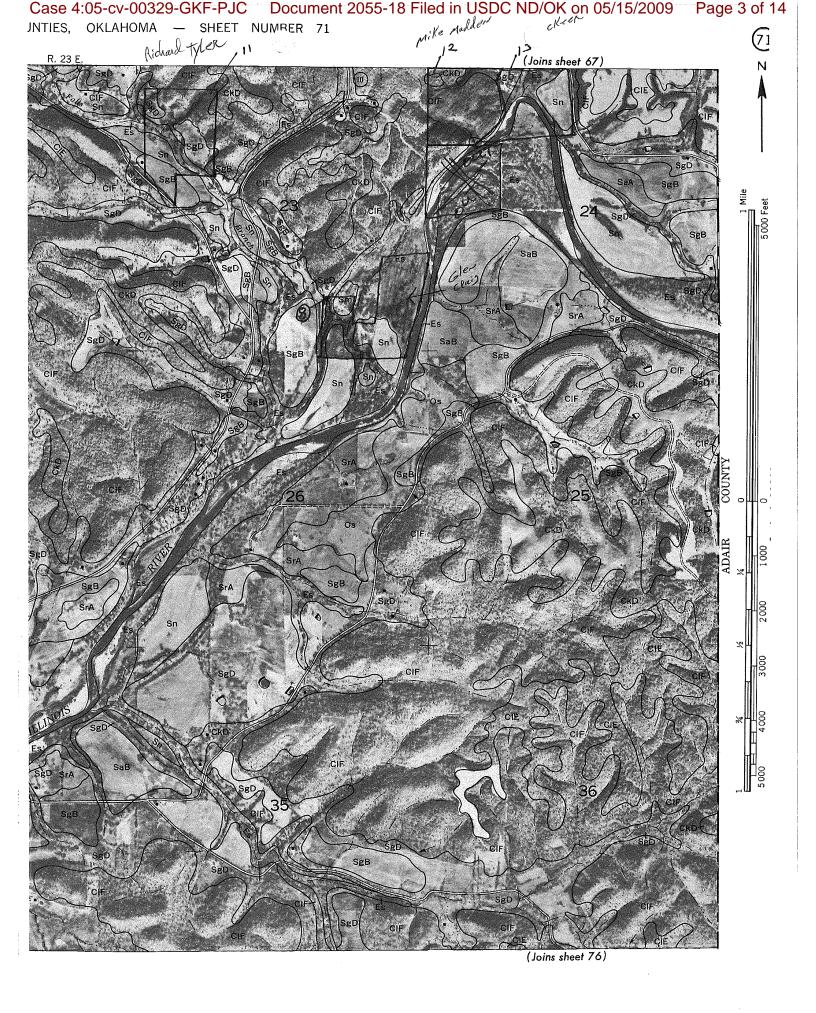
Case 4:05-cv-00329-GKF-PJC Document 2055-18 Filed in USDC ND/OK on 05/15/2009 Page 1 of 14

SOIL MAP WITH INTERPRETATIONS

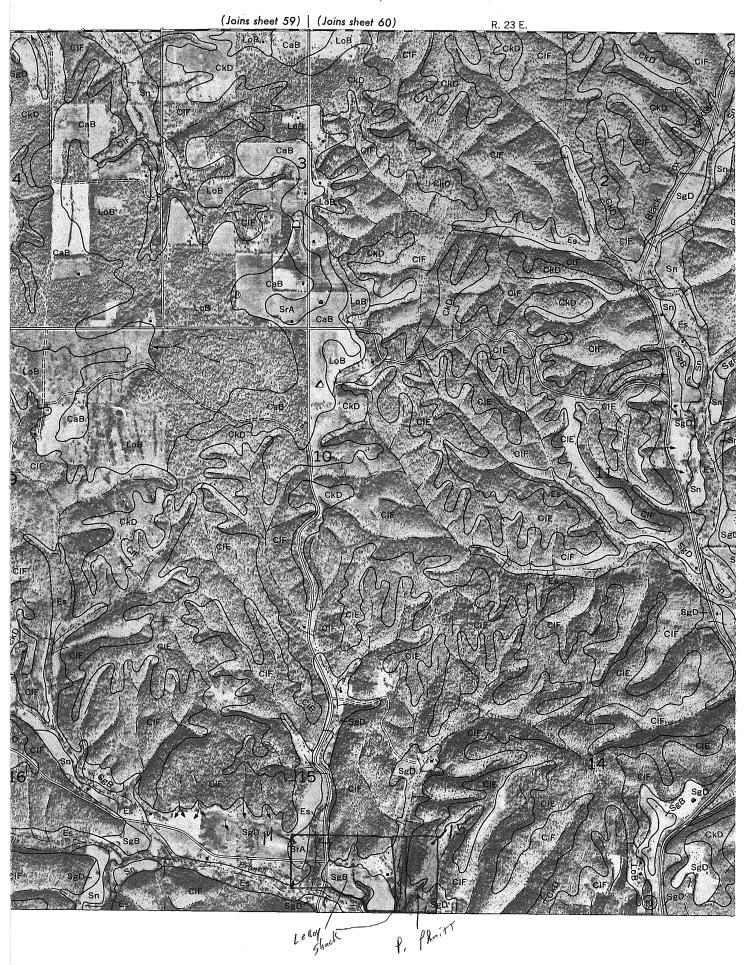
Owner Rober	+ Schwabe	Operator	same
County Ch	eeoKee	Oklahoma, Date	9/99
Approximate acres	600	Approximate so	cale
Cooperating with	Cherokee	County	Conservation District
	Plan identification	812 Photo nur	nber67
		Soil Conservation Service	







CHEROKEE AND DELAWARE COUNTIES, OKLAHOMA - SHEET NUMBER 67



BOB SCHWABE 14-19-23 NUTRIENT MANAGEMENT PLAN POULTRY FACILITY **APRIL 2004**

DESCRIPTION OF OPERATION

This nutrient management plan includes the production, handling, and distribution of wastes in a manner that prevents or minimizes degradation of air, soil, and water resources. Best Management Practices such as prescribed grazing, nutrient management, waste utilization, pest management, and heavy use area protection may be used as components of the waste management system.

This plan pertains to a 32,000 bird TURKEY operation located in 3 houses in Cherokee County. The houses are cleaned out only as needed due to disease or excess volume. The houses are decaked after each flock. The cake is land applied by the producer. Full clean out waste over the amount of 774 tons (including cake amount) will be sold or applied off site. Dead birds are disposed of in a dead bird incinerator.

APPLICATION

Waste can be applied to fields 2, 3, 4, 8, 9, 10, 11, 12, 13, 14, and 15 at a maximum rate of 2.3 tons per acre per year. Waste can be applied to fields 1, 6, and 9 at a maximum rate of 1.2 tons per acre per year. Refer to soils map for application areas. DO NOT APPLY TO AREAS MARKED IN RED. BLUE AREAS ARE FOR HALF RATE APPLICATION ONLY. DO NOT APPLY TO STEEP SLOPES.

In the event the waste cannot be spread at cleanout, due to weather conditions, etc.; the waste will be temporarily stored and covered to prevent runoff. Maintain a filter strip of bermudagrass or other forage between pens/lots, and any natural drainage areas. Protect the filter strip from grazing by use of a fence.

Estimated nutrients available to plants (lbs/ton):

40 lbs/ton (50% application loss) (No application loss) P2O5 =86 lbs/ton (No application loss) K2O =48 lbs/ton

Total waste production is estimated, by NRCS AWMFH, to be 1500 tons per year. This is assuming that the grow-out house is cleaned out in addition to the brooder houses. In a normal year when the houses are decaked only waste production is estimated, by the producer, to be 450 tons per year.

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Total nutrients produced each year and available for delivery to the field, after storage and application losses for the decake only, are as follows:

N = 18,225 lbs P2O5 = 38,745 lbs K2O = 21,870 lbs

An initial soil test is required for each field to determine current phosphorus (P) levels in the soil. Recommendations made in this plan are based on the landowners' actual soil and litter tests. In the event of a full cleanout the producer must sell or give the litter to someone else for offsite application. This will only include the amount above the 774 tons which can be properly applied to land under the control of the producer.

A soil map is included as a part of this nutrient management plan. If any areas are not suitable for litter application, due to soil conditions, it will be colored red on the soil map. This is the do not apply area.

RECORD KEEPING

Producers should contact their state poultry inspector for record keeping information and the appropriate forms to use.

EMERGENCY DISPOSAL OF DEAD BIRDS DUE TO CATASTROPHIC LOSS

In the event of a catastrophic death loss caused by weather, fire, etc., the producer should contact Oklahoma Department of Agriculture for disposal recommendations.

TELEPHONE NUMBERS

Oklahoma Department of Agriculture
Dan Parish, Water Quality Director ----- 405-521-3864

Nutrient Budget Worksheet

	#5.5				posterior pro-			
Landowne	er: Bob Schwabe				Field No.:	1	. 50	Acres
Purpose (Check								
	upply nutrients for plant p	1 =		_	terial as nu		ce	
✓ Minimize agric	cultural nonpoint source p	pollution [Maintai	n or impro	ve soil cond	lition	Mill Charles	
						10.00		
	Crop Sequen						ed Yield	
	Continuous g	raze pasture	NONE DE LE CONTROL DE LE C				4	
The second second						Egyptic Telephone		
		Nutrient Content		per ton				
N Test	N Remaining	P ₂ C					20	
81	40	86.	.1			48	3.6	
	er in Reconsectable of the SERIA			on a design	100			
		Current Soil						
N	P	K	pl		sor	1%	E	:C
22		481	6.0)				
			10 -		. 10		-00 01 1	- 1
	ended Nutrients to Meet							
N	N for Grass Est.	P ₂ O ₅	K2		Lin		Oti	her
200		0	0	elinmänne värtinkovalikulirikova	0.	7	KUNDES SENDEN SENDEN SENDEN SENDE	Eller authorizer v. der Wester und versch
		The legical and the second		asian depois to	e perfection			
	ana ing kangpagang pakan kasang sa	Nutrient	Sources		<u>_</u>	Same and a second		
	Credits		N		P ₂ () ₅	K ₂	20
	dits from previous legu		0				23.50	e de la co
	n long-term manure ap	plication	0		aran kathari			
3. Irrigation wat			0		in execution in the second		triumatore (Section)	
4. Other (Atmos	iphere, etc.)		0					
5.	A south of New York Control	Total Credits	0		0			nanconincture and a second state of
	Applied Nutrients		N	recolocula es tipo consider	P ₂ (K ₂	
C Faullian	0.1		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter			470				
7.	Other		0	178	0	0	53	0
8.	Manure or Organic		40	170	95	0	53	0
		plied Nutrients	40 62	178	95	0	53	0
10.	ents (add lines 5 and 8 plu		200	200 200	95 0	0	0	0
	rient Status (subtract li	ine 10 from 9)	-138		95		53	0
	gative number, this is the			needed to		ron recorr		
	sitive number, this is the a							1.
, mio i i di di di	The second secon		арриов по	ALTIOTAL OX	0000 1170 07	op roquire	111011101	e september de
Nutrient Managem	nent Decision - Including m	nethod rate form and	timing of a	oplication	Producer :	Selected Al	ternative:	1
	mes applying 1.1 tons per							
	nosphorus and Potasium i		•	•	•		,	
	mes that you would sell y	• •		•	•		-	
0.0 pounds of com	nmercial phosphorus ferti	lizer per acre, and 0.0	pounds pe	er acre of c	ommercial	potassium	fertilizer pe	r acre.

10/2002

Client Name:	Roh S	hwabe	Field(s):	1	IT WORKSHEET Date:	4/16/2004
Planner:		Hern	Location:	14-19-23	Crop:	pasture
Nutrient Limited W		1		14-13-23	Ctrl + C clears worksheet	pustare
jos et la la contrata se estada la c	atersiieu (yes/iio).	110			and the state of the New York States and the state of the	
Soil Test P Index Mehlich III (Ibs./ac)			202			
Application Method		incorporated within 7 below the surface	Surface applied or in than 7 days after x		Surface applied on frozen or snow covered ground	
Land Slope %		8 %:	8.1 - 1	5 %	> 15.1 %	
- Committee - Comm						. 1171-1174,
Erosion Rate Greater Than "T"		(0 .,_{_{_{_{_{_{_{_{_{_{_{_{_{\		<u> </u>	es	
Flooding Frequency		ne .	Occasio	nally	Frequently	
Distance of Manure	***************************************	t. or Buffer Strip Estab	lished		0 - 100 ft.	
Application to Perennial Stream, Pond, Well, or Sinkhole		x				
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Establisho		lished		0 - 50 ft.	
Depth of Soil	> 20		10.1 - 2	0 in.	0 - 10 in.	
		<u> </u>			MANUAL MA	
Rock Fragments in soil surface 3" to 10 " in diameter and		No			Yes	
exceed 50% by weight or > 10" in diameter and exceed 25% by weight		x				
Rocks > 10" in		No			Yes	
> 3% of the soil surface					x	
	No.	on - Nutrient Lim	ited Watershed -	Waste Applic	cation Rates	
Moderate Rating	Apply at half rate	of the crop: Ap up to 150 lbs/ac runoff. Applicat Split Application per application made between February 1 throsheight.	plication of up to P2O5 when apption of up to 200 in is designated, at least 30 days June 20 through ugh April 20 on e	o 100 lbs/ac P lied through a lbs/ac P2O5 on no more than apart. On occ September 20 established co	ally not to exceed the Nitroger 205 when surface applied. A sprinkler irrigation and managwhen incorporated within 7 dates 1/2 the allowed rate of P205 we cassionally flooded soils, apploassionally flooded soils, apploassionally flooded soils, apploassos with at least 1/2 the allowed rate of P205 we cassionally flooded soils, apploassos with at least 1/2 the allowed rates application may also be managed.	pplication of ged to prevent lys. When a will be applied ication may b ade between
Free Programmes and St.	91.5	Nutrient Limited	d Watershed - W	aste Applicati	on Rates	a support of the

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Nutrient Budget Worksheet

Landown	er: Bob Schwabe				Field No.:	2	20	Acres
Purpose (Check								
	upply nutrients for plant pr				aterial as nu		ce	
✓ Minimize agric	cultural nonpoint source p	ollution	Mainta	in or impro	ve soil con	dition		
				all the second				
	Crop Sequent					Expect	ed Yield	
	Continuous gr	aze pasture					4	0.000 No. 0.000
Maria Barana	- and the second							
		Nutrient Content		e per ton		· · · · · · · · · · · · · · · · · · ·		
N Test	N Remaining	P ₂	2 O 5				₂ O	
81	40	86	6.1			48	3.6	
						Total target	de la	
		Current So						
N	P	K	pl	H	SOI	И%	E	С
21	205	356	6.	4				
	THE STATE OF THE S				1.0			
Recomme	ended Nutrients to Meet				nent (See	Tables in	590 Stand	ard)
N	N for Grass Est.	P ₂ O ₅	K2	:O	Lin	ne	Otl	her
200		0	0)	O)		
	·	Nutrien	t Sources					
	Credits		2	1	P2	05	K	20
1. Nitrogen cred	dits from previous legur	ne crop	0					
2. Residual fron	n long-term manure app	lication	0)	Calle of Call	e de la companya de l		
3. Irrigation wat	er		0					
4. Other (Atmos	phere, etc.)		0					
5.		Total Credits	0	ł	0		(0
	Applied Nutrients		N	l l	P ₂ (⊃ ₅	K ₂	₂ O
			Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter							
	Other		0	179	0	0	0	0
7.	Manure or Organic		80	0	198	0	112	
8.		lied Nutrients	80	179	198	0	112	
	ents (add lines 5 and 8 plu	s N from Soil Test)	101	200	198	0	112	0
10.	Recommend		200	200	0	0	0	0
	rient Status (subtract lir		-99	0	198	0		
	ative number, this is the a							1.
If line 11 is a pos	itive number, this is the a	mount by which the	e applied n	utrients ex	ceed the c	rop require	ments.	
					3000			
	ent Decision - Including me					Selected Al		1
	mes applying 2.3 tons per nosphorus and Potasium re		litter. At	this rate y	ou will not r	neet the nit	trogen requ	iirements
	mes that you would sell yo		ment with 1	79 nounde	ner acre of	commercis	al nitrogen i	fortilizer
	nmercial phosphorus fertili							
			- p			p		

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· · · · · · · · · · · · · · · · · · ·				T WORKSHEET	
Client Name:	Bob Schwabe	Field(s):		Date:	1/10/2004
Planner:	Marty Hern	Location:	14-19-23	Crop:	pasture
Nutrient Limited W	/atershed (yes/no): no			Ctrl + C clears worksheet	
Soil Test P Index		productive species desires		Service state of the Analysis of Service Services and the services of the serv	<u>Nebeste adalestas</u>
Mehlich III (lbs./ac)		205			
Application Method	Surface applied and incorporated within days or injected 2" below the surface	7 Surface applied or i than 7 days aft		Surface applied on frozen or snow covered ground	
Land Slope %	0 - 8 % x	8.1 - 1	5 %	> 15.1 %	
	en die State en de Carllinging de Williams ander a ve				
Erosion Rate Greater	No No	3 1784 13.1	Υe	98	4.6
Than "T"	x				
Flooding Frequency	None. Managara	Occasio	onally	Frequently	e a compression
	X				Notice that the second
Distance of Manure Application to	> 100 ft. or Buffer Strip Est	ablished		0 - 100 ft.	
Perennial Stream, Pond, Well, or Sinkhole	x				
Distance of Manure	> 50 ft. or Buffer Strip Esta	ablished		0 - 50 ft.	10.00
Application to Intermittent Stream	x				
Depth of Soil	> 20.1 in.	10.1 - 2	0 in.	0 - 10 in.	and the strain
Rock Fragments in soil surface 3" to 10 " in diameter and xceed 50% by weight or > 10" in diameter and exceed 25% by weight	No.			Yes	
Rocks > 10" in	No			Yes	
> 3% of the soil surface	X		<u> </u>		
Surface	Non - Nutrient Lir	mited Watershed -	Waste Applic	ation Rates	and the second
Moderate Rating	of the crop: A up to 300 lbs/a runoff. Applic Apply at full rate per application made between February 1 thropics.	pplication of up to ac P2O5 when app ration of up to 400 on is designated, n at least 30 days a June 20 through	200 lbs/ac P2 lied through s lbs/ac P2O5 w no more than apart. On occ September 20 established co	assionally flooded soils, application may also be made of season grasses with at least	plication of ed to prevent s. When a fill be applied cation may b de between

Nutrient Budget Worksheet

termoter :				100				
Landowne	er: Bob Schwabe	an and a second			Field No.:	3	70	Acres
The second secon		American American (1997)						
			T				-	
_			l —	_			ce	
✓ Minimize agric	ultural nonpoint source p	ollution	Maintair	n or impro	ve soil cond	lition	Marchael Commission (COM	
	pp (Proceedings)	Carlo estado de April 17					and the last of	
The state of the s	Continuous gr	raze pasture				4	1	
N Toot	N Demaining			per ton		- K		
				 				
OI	40	STATE OF THE STATE	3.1	en pegisit e		70	·. O	encesus ences
and the state of t		Current Sc	il Tast I ev	ole			APPROPRIEST OFFICE AND ADDRESS OF THE PERSON NAMED IN COLUMN	
N	Тр				SOI	17%	E/	C
38		229			-	70	_	
- Sandisan dela		anagam taka ay a at			To the State of			
Recomme	nded Nutrients to Meet	Expected Yield a	nd Grass E	stablishr	nent (See "	Fables in §	590 Standa	ard)
N	N for Grass Est.							
				- I	aga ar para ing			
A STATE OF THE STA		Nutrier	nt Sources	E. Filter suc.				Shark aladorac
	Credits		N N	ing the state of t	P ₂ (D _e	K ₂	.0
1. Nitrogen cred	101.0	me crop	0		Control of the Contro	- 0		
			0		hall Late	1000		
			0		Sales Sheet	E-C-E-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C		POS-O STATES
			0					
5.		Total Credits	0					
	Crop Sequence/Rotation Continuous graze pasture Nutrient Content Test	N		P ₂ (D ₅	K ₂	0	
	The state of the s		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer								
			0	162	0	0	0	30
7.			80	0	198	0	112	0
			80	162	198	0		30
				200				30
								30
								0
_	· · · · · · · · · · · · · · · · · · ·					•		*
П Шетто а рос.	IIVE Humber, and is are a	Mount by winding.	в арриоч па	Illiellie o.	Ceeu ino o.	Op rogano	III O ITIO.	
Nutrient Manageme	ont Decision - Including m	othod rate form and	d timing of ar	enlication.	Producer	Selected Al	ternative:	1
Budget and supply nutrients for plant production Minimize agricultural nonpoint source pollution		acre. At t						

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0!!1 !!		MA PHOSP	PR 11/ 5			4 (40)0000
Client Name:			Field(s):	3	Date:	1/10/2004
Planner:		Hern	Location:	14-19-23	Crop:	pasture
Nutrient Limited W	/atershed (yes/no):	no	le alikainin - uuron uurin makeeli ka	etro i seglio A. Albito A. Gra. Sa.	Ctrl + C clears worksheet	nii Oleona ole Penera ole Alemania (1881).
Soil Test P Index				ag (10, 5 15 20, 2 m) no no 11, 22 mere.		and the state of t
Mehlich III (lbs./ac)			152	Term August 12		
Application Method	Surface applied and days or injected 2"		Surface applied or in than 7 days after x		Surface applied on frozen or snow covered ground	
Land Slope %	0 -		8.1 - 1	5 %	> 15.1 %	
	versines Savier de	Bahasasa kabulatan katan				
rosion Rate Greater	N	0		Y	es	Aller SPUED IN
Than "T"						
Flooding Frequency	No		Occasio	nally	Frequently	46 (300 H22 H34 150 H
	· · · · · · · · · · · · · · · · · · ·					
Distance of Manure Application to	> 100 f	t. or Buffer Strip Estab	lished		0 - 100 ft.	
Perennial Stream, Pond, Well, or Sinkhole		x				
Distance of Manure	> 50 ft	or Buffer Strip Establ	ished		0 - 50 ft.	
Application to Intermittent Stream		x				
Depth of Soil	> 20.		10.1 - 2	0 in.	0 - 10 in.	are a series soule series
)					
Rock Fragments in oil surface 3" to 10 " in diameter and	NI_				Yes	
xceed 50% by weight or > 10" in diameter and exceed 25% by weight		x				
Rocks > 10" in iameter which cover		No			Yes	
> 3% of the soil surface		x				
Mariana Maria	No	n - Nutrient Lim	ited Watershed -	Waste Applic	eation Rates	
Moderate Rating	Apply at full rate	of the crop: App up to 300 lbs/ac runoff. Applicat Split Application per application a made between J February 1 throu height.	plication of up to P2O5 when app ion of up to 400 n is designated, at least 30 days a June 20 through ugh April 20 on e	200 lbs/ac P lied through s lbs/ac P2O5 v no more than apart. On occ September 20 established co	ally not to exceed the Nitrogen 205 when surface applied. Apsprinkler irrigation and managwhen incorporated within 7 day 1/2 the allowed rate of P205 weassionally flooded soils, applion. Application may also be mate of season grasses with at least	plication of ed to preven ys. When a vill be applie cation may b de between
Charles Anna Carlotte	Part Supplement III	Nutrient Limited	l Watershed - Wa	iste Applicati	on Rates	

Nutrient Budget Worksheet

Landown	er: Bob Schwabe				Field No.:	4	67	Acres
		E THE STATE OF THE					LES ESPERIE	
Purpose (Check			T					
	supply nutrients for plant p	1		_	iterial as nui		ce	
Minimize agri Min	icultural nonpoint source p	pollution	Maintai	n or impro	ve soil conc	lition	Carlo San	
							1 Walai	
	Crop Sequen						ed Yield	
and the control of the control of	Continuous g	raze pasture					4	
		Nutrient Content	of Manue	o por top			Strain and	
N Test	N Remaining			hei rou		K	₂ O	
N Test 81	N Remaining 40		₂ O ₅ 6.1				₂ 0 3.6	
01			D. I			70	7.0	
		Current So	il Taet ev	role	SELECTION OF STREET		<u> Estatolista kallistatuuru</u>	Marking are sections
N	Р	K	pl		SON	1%	Γ E	C
24	236	181	5.0			11 / 0		,
e-T				3				
Recomme	ended Nutrients to Meet	t Expected Yield a	nd Grass E	 Establishn	nent (See 1	ables in !	590 Stand	ard)
N	N for Grass Est.	P ₂ O ₅	K2		Lin		· · · · · · · · · · · · · · · · · · ·	her
200		0	30		0.	7		
							and the second	
		Nutrien	t Sources					
	Credits	April 1985 Comment	N		P ₂ C) ,	K	20
1. Nitrogen cre	dits from previous legu	me crop	0			-		
	m long-term manure ap		0			Carrier III		
3. Irrigation wat			0		SEE SEED CONTRACTOR MICHAEL	STATE OF THE STATE		SELECTED CO.
4. Other (Atmos			0					
5.		Total Credits	0		0		0	
	Applied Nutrients		N	12.35	P ₂ () 5	K,	₂ O
			Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter							
	Other		0	176	0	0	0	30
7.	Manure or Organic	by-products	80	0	198	0	112	0
8.	Total App	olied Nutrients	80	176	198	0	112	30
9. Total Nutrie	ents (add lines 5 and 8 plu		104	200	198	0	112	30
10.		ded Nutrients	200	200	0	0	30	30
	trient Status (subtract li		-96	0	198	0	82	
_	gative number, this is the					•		7.
If line 11 is a pos	sitive number, this is the a	amount by which the	e applied n	utrients ex	ceed the cr	op require	ments.	
				199				1 4
	nent Decision - Including m					Selected Al		1 1
	umes applying 2.3 tons per hosphorus and Potasium r		itter. At	this rate yo	ou will not n	neet the fin	trogen requ	irements
	umes that you would sell you	•	ment with 1	76 pounds	per acre of	commercia	al nitrogen	fertilizer,
	mmercial phosphorus ferti							
	, ,							
i								

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:	OKLAHO	MA PHOSP	HORUS AS	SESSMEN	T WORKSHEET	
Client Name:	Bob Sc	hwabe	Field(s):	4	Date:	1/10/2004
Planner:	Marty	Hern	Location:	14-19-23	Crop:	pasture
Nutrient Limited W	/atershed (yes/no):	no			Ctrl + C clears worksheet	
Soil Test P Index	Andrepring to the Color State (See St.	Bright Control College (Co. A.).				Albert (1975 - 1984), Albert (197
Mehlich III (lbs./ac)			236			
Application Method	Surface applied and i days or injected 2"		Surface applied or in than 7 days after x		Surface applied on frozen or snow covered ground	
	0 - 8	3 %	8.1 - 1	5 %	> 15.1 %	
Land Slope %	х	· · · · · · · · · · · · · · · · · · ·	<u></u>			
Franks Bata Crastor	N	atan kalandan ja ja pada dinijali. O	Participation of the control of the second section of the section o	Y	es	
Erosion Rate Greater Than "T"	K					
Flooding Frequency	No No		Occasio	onally	Frequently	B Section 1980
Distance of Manure	> 100 f	t. or Buffer Strip Estab	olished		0 - 100 ft.	
Application to Perennial Stream, Pond, Well, or Sinkhole		х				
Distance of Manure Application to Intermittent Stream	> 50 ft.	> 50 ft. or Buffer Strip Established			0 - 50 ft.	
Depth of Soil	> 20.	1 in.	10.1 - 2	20 in.	0 - 10 in.	
Depth of 30h	х					
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight		No			Yes	
or > 10" in diameter and exceed 25% by weight		x				
Rocks > 10" in diameter which cover		No			Yes	
> 3% of the soil surface		x				
National Control	No	n - Nutrient Lim	ited Watershed -	Waste Applic	cation Rates	Labora Pestigena
_	Apply at full rate	of the crop: Ap up to 300 lbs/ac runoff. Applica Split Application per application made between February 1 thro height.	plication of up to P2O5 when apption of up to 400 in is designated, at least 30 days June 20 through ugh April 20 on e	o 200 lbs/ac Polied through solid through solid lbs/ac P2O5 no more than apart. On occ September 20 established co	ally not to exceed the Nitroger 205 when surface applied. Apsprinkler irrigation and managwhen incorporated within 7 da 1/2 the allowed rate of P2O5 was sionally flooded soils, apploaces application may also be mapol season grasses with at lea	oplication of led to prevent lys. When a will be applied ication may be debuteen
Albert middline di		Nutrient Limited	d Watershed - W	aste Applicati	on Rates	
		-				

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